

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A gasification reactor vessel comprising:
 - a pressure shell, said pressure shell having an elongated encircling body wall and shell ends at each of opposite ends of said body wall;
 - a plurality of channel members defining cooling conduits, each of said channel members extending lengthwise between said shell ends and being distributed circularly around an inner side of said body wall, said ~~conduits~~ channel members being fixedly connected to said inner side, interior spaces of said cooling conduits being in communication with said channel members and said body wall inner side;
 - a fluid supply conduit communicating with common ends of said cooling conduits for supplying a coolant to said cooling conduits;
 - a fluid discharge conduit communicating with opposite ends of cooling conduits for outletting heated coolant from said cooling conduits;
 - a layer of thermally protective material contactingly covering said cooling conduits; and
 - anchor ties fixedly connected to said ~~cooling conduits~~ channel members and embedded in said protective material covering.

2. (original) A gasification reactor vessel according to claim 1, wherein said thermally protective material covering is a refractory material.

3. (currently amended) A gasification reactor vessel according to claim 2, wherein each ~~cooling conduit~~ channel member comprises a pair of spaced webs fixedly connected at common ends of each to said body wall inner side, and a bridging piece joining opposite ends of said webs.

4. (withdrawn - currently amended) A gasification reactor vessel according to claim 3, wherein said ~~cooling conduits~~ channel members are fixedly connected to said body wall inner side at circularly spaced locations thereon.

5. (withdrawn) A gasification reactor vessel according to claim 4, wherein said refractory material layer fills spaces between adjacent cooling conduits and covers said body wall inner side between said adjacent cooling conduits.

6. (withdrawn) A gasification reactor vessel according to claim 5, wherein anchor ties are fixedly connected to said body wall inner side in the spaces between adjacent cooling conduits and are embedded in the refractory material layer filling said spaces.

7. (currently amended) A gasification reactor vessel according to claim 3, wherein the ~~cooling conduits~~ channel members extend around the inner side of said body wall with the webs of each fixedly connected to a web of adjacent cooling conduits.

8. (currently amended) A gasification reactor vessel according to claim 7, wherein said ~~cooling conduits~~ channel members are fixedly connected to the body wall inner side and to each other with gastight and watertight connections.

9. (withdrawn - currently amended) A gasification reactor vessel according to claim 4, wherein said ~~cooling conduits~~ channel members are fixedly connected to the body wall inner side with gastight and watertight connections.

10. (original) A gasification reactor vessel according to claim 3, further comprising a refractory lining covering said refractory layer.

11. (original) A gasification reactor vessel according to claim 10, wherein said refractory lining comprises a brickwork lining.

12. (original) A gasification reactor vessel according to claim 1, wherein a cross section of said cooling conduits is one of an oval, a semicircle and a polygon.

13. (original) A gasification reactor vessel according to claim 1, further comprising a caked slag layer covering said thermally protective material layer.

14.-16. (canceled)

17. (currently amended) A gasification reactor vessel comprising:

a cylindrical pressure shell;

a plurality of channel members extending lengthwise of said pressure shell in a circular array around an inner side of said pressure shell, said channel members being fixedly connected to said inner side to provide a corresponding plurality of closed coolant flow courses, each of said closed coolant flow courses being defined by a corresponding one of said channel members and said inner side of said cylindrical pressure shell;

an encircling protective layer of refractory material covering said channel members and being in heat conductive contact with said channel members; and

an encircling lining of at least one of a caked slag and a refractory covering said protective layer.

18. (original) A gasification reactor vessel according to claim 17, wherein the channel members are connected to said inner side of said pressure shell with gastight and watertight welded connections.

19. (new) A gasification reactor vessel according to claim 1, wherein said cooling conduits are sufficiently dimensioned such that pressure in said pressure conduits is maintained when said reactor vessel is depressurize to atmospheric pressure.

20. (new) A gasification reactor vessel according to claim 1, wherein said channel members are arranged for maintaining a pressure higher than operating pressure in the reaction chamber.